

A method for treating or preventing a functional vitamin B12 deficiency in an individual and medical compositions for use in said method

Patent Number WO 2002087593 A1 7 November, 2002

PCT Int. Appl., 59 pp.

Abstract

A method and medical composition for the treatment and/or prevention of a functional vitamin B12 deficiency in an individual that is brought about as a consequence of oxidative stress on biochem. pathways. The functional vitamin B12 deficiency may eventually present as dementia, other neuropsychiatric abnormality and/or vascular disease. The method involves the administration of a medical composition that supplies a cobalt-sulfur bond in the upper β -ligand of an intracellular cobalamin mol. thereby facilitating intracellular processing of cobalamin. The cobalt-sulfur bond may be provided directly by administration of a thiolatocobalamin, such as glutathionyl-cobalamin or indirectly by the co-administration of vitamin B12 (or a derivative thereof) with a sulfur-containing mol., such as glutathione or a precursor thereof.

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Application Information

WO 2002-GB1843 22 April, 2002

Priority Information

GB 2001-10336 A 25 April, 2001

GB 2001-20363 A 22 August, 2001

Patent Information

Number	Kind	Date	Application	Date
(1) WO 2002087593	A1	7 November, 2002	WO 2002-GB1843	22 April, 2002

(1) - W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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2002:675881-[Full Text](#)

Carrier systems comprising vitamin B12-biodegradable microparticulate conjugates for peroral delivery of drugs, peptides/proteins and vaccines

Patent Number WO 2002067995 A1 6 September, 2002

PCT Int. Appl., 47 pp.